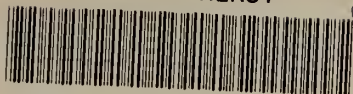


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AMHERST, MA 01003

OCT 17 1997

Coastal Zone

The Next 25 Years

97



Charting the
Future of
Coastal Zone
Management

Conference at a glance

Saturday, July 19

- 9:00 am - 3:00 pm Volunteer Orientation and Training
- 9:00 am - 5:00 pm Associated Meetings and Workshops
- 4:30 pm - 6:00 pm International Workshop/Opening Meeting

Sunday, July 20

- 12:00 pm - 6:00 pm Registration
- 9:00 am - 5:00 pm Associated Meetings, Workshops, and Field Trips

Monday, July 21

- 8:00 am - 6:00 pm Registration
- 9:00 am - 5:00 pm Associated Meetings/Field Trips
- 6:00 pm - 8:00 pm Rally for the Coast-Faneuil Hall

Tuesday, July 22

- 8:00 am - 6:00 pm Registration
- 8:30 am - 9:00 am Welcome
- 9:00 am - 10:30 am Morning Plenary Session
- 10:30 am Break-Castle
- 11:00 am - 12:30 pm Sessions Schedule A
- 12:30 pm - 2:00 pm Lunch
- 2:00 pm - 3:40 pm Sessions Schedule B
- 3:40 pm - 4:00 pm Break
- 4:00 pm - 5:40 pm Sessions Schedule C
- 7:00 pm - 10:30 pm Gala Reception-New England Aquarium

Wednesday, July 23

- 8:00 am - 6:00 pm Registration
- 8:30 am - 10:00 am Morning Plenary Session
- 10:00 am Break-Castle
- 10:30 am - 12:00 pm Sessions Schedule D
- 12:00 pm - 2:00 pm Lunch/Speaker Lunch/Roundtable
- 2:00 pm - 3:40 pm Sessions Schedule E
- 3:40 pm - 4:00 pm Break
- 4:00 pm - 5:40 pm Sessions Schedule F
- 6:00 pm - 8:00 pm Exhibitors Reception-Castle

Thursday, July 24

- 8:00 am - 6:00 pm Registration
- 8:30 am - 10:30 am Morning Plenary Session
- 10:30 am - 11:00 am Awards Presentation
- 11:00 am Break-Castle
- 11:30 am - 12:30 pm Session Schedule G
- 12:30 pm - 2:00 pm Lunch
- 2:00 pm - 3:40 pm Sessions Schedule H
- 3:40 pm - 4:00 pm Break
- 4:00 pm - 5:40 pm Sessions Schedule I
- 6:00 pm - 10:30 pm Harbor Island Clam Bake

Friday, July 25

- 8:30 am - 12:00 pm Planning Committee Wrap-Up
- 9:00 am - 5:00 pm Associated Meetings

Don't forget to visit the Castle! During the morning break, coffee will be served in the Park Plaza Castle to give conference attendees a chance to check-out the exhibits and poster sessions. We have also scheduled raffles of Boston Red Sox Baseball tickets in the Castle at this time -- don't miss-out!

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Coastal Zone 97 Registration Part 1

This form is for conference registration only, for hotel registration please refer to page 3.

Please complete the following two-sided form and mail, with full payment, to:

Coastal Zone 97 Coordinator

c/o Conventures, Inc.

One Design Center Place Suite 718

Boston, MA 02210, USA.

Please make check payable to University of Massachusetts Boston/CZ97.

Please type or print clearly

Last Name

First Name

Organization

Address (for all conference correspondence)

City

State/Province

Zip/Postal Code

Country

Telephone

Fax

Email

Please select a format for your Coastal Zone 97 Abstract Proceedings:

CD ROM _____

Book _____

Total Conference Fees (in US dollars)

Registration Fee

Early - \$275 postmarked by June 16, 1997 Late - \$325 postmarked after June 16, 1997

Student - \$95 Please include a copy of a current student identification card

Guest Fees (Applicable only if you are bringing a guest(s) to the conference)

New England Aquarium Reception: # of guests _____ @ \$20.00 = \$ _____

Park Plaza Castle Reception: # of guests _____ @ \$20.00 = \$ _____

Total special event and field trip fees, from Registration Form Part Two \$ _____

Total amount of Conference Fees \$ _____

Total amount enclosed \$ _____

Make check payable to University of Massachusetts Boston/CZ97

Coastal Zone 97 Registration Part 2

Special Events and Field Trip Fees

The following special events and field trips are additional costs and must be signed-up for prior to the conference. Please fill-in how many people are attending the trip and the cost, if applicable. Please note that field trips are on a first-come first-serve basis. All field trips are subject to change or cancellation.

Event	Cost	x	# of People	= Total Cost
Boston Harbor Island Clambake Thursday, July 24	\$30		_____	= \$ _____
Whale Watch Trip Sunday, July 20 Lunch included	\$26		_____	= \$ _____
Without lunch	\$18		_____	= \$ _____
Islands NATUREally Sunday, July 20 Lunch included	\$12		_____	= \$ _____
Tour of Battelle Monday, July 21 Please indicate how many will attend	No Charge		_____	
Tour of Cape Ann and Plum Island Friday, July 25	\$12		_____	= \$ _____
Deer Island Waste Water Treatment Plant Monday, July 21	\$12		_____	= \$ _____
Tour of New Bedford Harbor Monday, July 21 Lunch included	\$32		_____	= \$ _____
Hazard Mitigation and Barrier Beach Management Monday, July 21 Lunch included	\$30		_____	= \$ _____
Waquoit Bay National Estuarine Research Reserve Monday, July 21 Lunch included	\$25		_____	= \$ _____

Total Special Event and Field Trip Fees = \$ _____



Air Travel Reservation Fax Form



American Express Travel

Attention Mary Lane

Phone (800) 253-8643 x 2267

Fax (617) 876-9722

American Express Travel is proud to be the official travel agency providing air transportation to the conference in Boston, Massachusetts. They have a dedicated staff available to assist you with your travel arrangements. American Express will be happy to arrange travel for all conference participants on any carrier serving Boston. In addition, they have negotiated special airfare rates with USAIR for travel between July 19-27, 1997.

To make your reservation by fax, complete the form below and fax to the number printed above.

Last Name

First Name

Home Address

Home Phone

Business Phone

Fax Number

Mailing Address (if different from above)

Flight Preferences

Departure City/Airport

Departure Time

Departure Date

Return City/Airport

Return Time

Return Date

Frequent Flyer Information

Seat Preference

Meal Preference

Credit Card, Type and #

Expiration Date

Cardholder Name (if different from above)



BOSTON • MASSACHUSETTS

Dr. Stanley Wilson
National Ocean Service
Chair

Martin Miller
U.S. Army Engineer
Waterways Experiment

Peg Brady
Massachusetts
Coastal Zone Management

Richard F. Delaney
The University of Massachusetts
Boston
Executive Officer

Dear Participant:

Welcome to Coastal Zone 97 (CZ97)! Boston is proud to host the tenth International Symposium on Coastal and Ocean Management. Drawing from the historical legacy of revolutionary ideas and citizen activism in one of America's oldest cities, CZ97 aims to challenge current and future environmental leaders of the world to consider coastal issues from new perspectives.

Prepare to join our spirited rally on the eve of the conference as we celebrate the diversity of attendees who congregate in historic Faneuil Hall to assert and reassert common coastal goals and codes of conduct. The following day, the conference begins with a plenary discussion and debate on the "measures of success" for assessing coastal management programs and segues into Re-thinking the future of coastal zone management. In subsequent days, plenary presentations will spark dialogue on whether Sustainable Development can be achieved in coastal communities and on the worldwide importance of coastal change and Public Health issues.

CZ97 strives to incorporate environmental wisdom from scientists and nonscientists alike. We hope you will come to Boston with ideas and experiences to share, the curiosity to explore and challenge, and the willingness to participate! We envision pooling the knowledge and energy of all participants so that together we may chart a course into the 21st century with renewed faith that the coasts and oceans of the world will flourish.

Enclosed, you will find an overview of the conference program as well as information on accommodations, travel and registration. Please join us, and help make CZ97 a most insightful and challenging coastal symposium!

W. Stanley Wilson
Co-Chair

Martin Miller
Co-Chair

Peg Brady
Co-Chair

Coastal Zone 97

Conference Program

Information

COASTAL ZONE 97 CONFERENCE EVENTS will be held from Saturday, July 19, 1997, through Friday, July 25, 1997. A conference-at-a-glance schedule is provided for ease of orientation to the seven days of Coastal Zone 97. Preliminary functions and meetings will be held on Saturday, July 19, Sunday, July 20, and Monday, July 21. The Conference sessions will be Tuesday, July 22, Wednesday, July 23, and Thursday, July 24. An open planning committee wrap-up meeting is scheduled for Friday, July 25, 1997.

The Coastal Zone 97 Technical Program Book is included with this Conference Guide. This book details all of the conference's plenary sessions, concurrent sessions, poster sessions, and roundtable discussions. A floorplan of the hotel is provided on the back cover of the Technical Program Book to help you find your way.

Each day of the conference will begin with a morning plenary session, open to all participants. The remainder of the program is dedicated to smaller concurrent sessions, poster sessions, and exhibit viewing. There is no separate registration for the concurrent sessions, and space availability is on a first-come-first serve basis.

Concurrent sessions, listed in table format and according to coded themes, are included in the Technical Program Book. The coding is intended to help guide you in your selection of sessions. Note that you must pick only one session to attend in each of the scheduled time blocks.

Roundtable Discussions

On Wednesday, July 23, 1997, there will be lunchtime roundtable discussions. These roundtables present an opportunity for participants to informally discuss various selected topics. Abstracts of roundtable topics are included in the Technical Program Book. Space is limited at each roundtable discussion. You must sign-up to participate during on-site registration in Boston. Conference participants who do not sign-up for a roundtable discussion are invited to attend an international luncheon with speakers from the United Nations Educational Scientific and Cultural Organization (UNESCO) and the United Nations Environment Program (UNEP).

Awards Presentation

The Coastal Zone awards of distinction, the Julius A. Stratton Award for Leadership and the Orville T. Magoon Award for Service, will be presented at the Coastal Zone 97 awards ceremony on Thursday morning, July 24, 1997. The Julius A. Stratton Award for Leadership will be presented to the person selected for his/her ability in championing the cause for the coast. Coastal Zone 97 participants will have an opportunity to nominate and vote for their choice for the Orville T. Magoon Award for Service, which is presented to the person or group recognized for volunteering their time and talents to make the greatest difference for the coast.

Exhibits, Posters, Coastal Showcase, and Art Exhibit

The Coastal Zone 97 Exhibit Hall will be in the Park Plaza Castle, a National Historical Landmark conveniently located across the street from the hotel. In addition to commercial, government, and non profit exhibits, the Castle will host the Coastal Zone 97 Poster Sessions, the Coastal Showcase, and a Coastal Art Exhibit. Morning coffee breaks, raffles, a chowderfest, and one evening reception are scheduled in the Castle to give participants ample opportunity to check-out all the displays.

The Castle hours are

Tuesday, July 22 - 10:00 am to 5:00 pm
Wednesday, July 23 - 10:00 am to 8:00 pm
Thursday, July 24 - 10:00 am to 5:00 pm
More detailed exhibit information is available on the World Wide Web at www.infinitefaculty.com/cz97, or by contacting Chantal Lefebvre at the

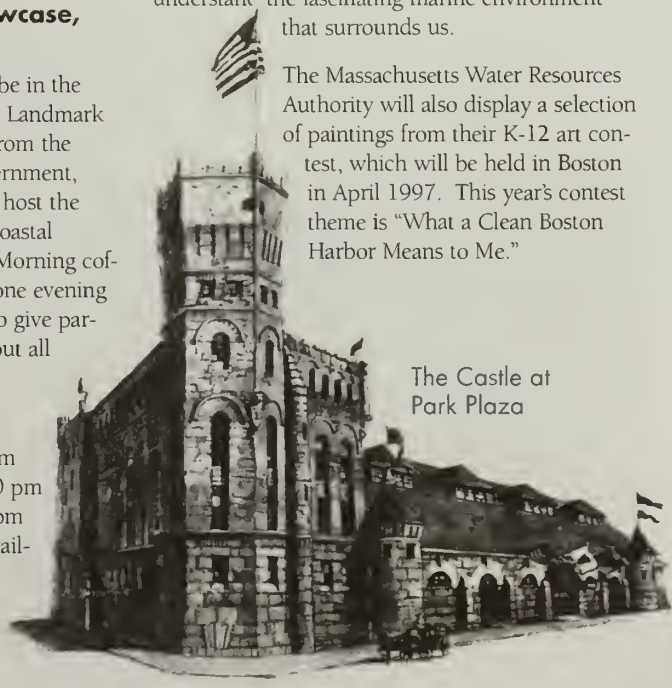
Urban Harbors Institute, telephone (617) 287-5570.

Poster sessions and their allotted viewing days are listed in the Technical Program Book. Conference organizers have scheduled the poster sessions so that they complement the plenary sessions and concurrent sessions held that day.

The Coastal Showcase: Major Accomplishments promotes regional networking on coastal issues by providing exhibit space for coastal management practitioners from the state coastal zone management programs, National Estuarine Research Reserves, National Sea Grant Programs, National Estuary Programs, National Marine Fisheries Service Programs, National Marine Sanctuaries, and regional US Fish & Wildlife Service offices to display their most effective resource management tools of the trade. Tools displayed will include examples of programs and projects for outreach and education, methods for building public participation, and demonstrations of programs promoting sustainable use of the coast and its resources.

Coastal Zone 97 is proud to present **Creatures of the Bank**, a traveling exhibition of photographs that illustrate the wide variety and unique character of the species that inhabit the Stellwagen Bank National Marine Sanctuary. These images are designed to inspire viewers to learn more about our coastal and marine resources and to better understand the fascinating marine environment that surrounds us.

The Massachusetts Water Resources Authority will also display a selection of paintings from their K-12 art contest, which will be held in Boston in April 1997. This year's contest theme is "What a Clean Boston Harbor Means to Me."



The Castle at
Park Plaza

Welcome to America's walking city Boston massachusetts

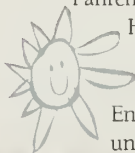
International City



Boston has been known as a focal point for maritime trade in the United States and as the birthplace of democracy. However, Boston's first-rate hospitals, educational institutions, biotechnological and environmental corporations, and other cutting-edge industries keep Boston in the forefront as an international center for education, finance, technology, and research. With the historic Boston Light in its outer harbor, Boston is the ideal location for casting spotlights on solutions and for charting the future of coastal zone management. Join us in Boston for Coastal Zone 97!

Weather in July

The summertime temperatures in Boston are usually warm and humid, between 75 to 85 degrees Fahrenheit (24 to 30 degrees Celsius), with evening lows between 65 and 75 degrees Fahrenheit (18 to 24 degrees Celsius).



However, be prepared. As Mark Twain once quipped, "one of the brightest gems in the New England weather is the dazzling uncertainty of it."



Revere Beach, one of our nation's oldest beaches

What To See and Do in Boston

With a less than three mile radius, Boston is "America's Walking City." Moreover, the Park Plaza Hotel is central to great restaurants, theater, and shopping. If you plan on attending Coastal Zone 97, we encourage you to arrive early or to stay a few extra days so that you have an opportunity to further explore the city. Some places you might want to consider visiting: the Boston Common (the oldest public park in the country), the Boston Tea Party Ship, the Bull & Finch Pub (a.k.a. "Cheers"), the USS Constitution, the Freedom Trail, the Museum of Fine Arts, the Museum of Science, the New England Aquarium, and Newbury Street. For more detailed information on Boston's attractions, contact the Greater Boston Convention and Visitors Bureau, Prudential Tower, Suite 400, P.O. Box 490, Boston, MA 02199, or telephone (617) 536-4100. To explore Boston on the World Wide Web, visit the Greater Boston Convention & Visitors Bureau at:

www.dvm.com/users/dvm/boston/index.html.

Also, the Boston Red Sox begin a home game series on July 22, 1997. For more information or to order Red Sox tickets call (617) 267-1700 or (617) 262-1915 (for groups of 40 or more). Visit the Boston Red Sox on the World Wide Web at www.nesn.com/baseball.

Air Travel to Boston

American Express Travel is proud to be the official travel agency providing air transportation to the conference in Boston, Massachusetts. American Express has a dedicated staff available to assist you with your travel arrangements. They will be happy to arrange travel for all conference participants on any carrier serving Boston. In addition, American Express Travel has negotiated special airfare rates with USAIR for travel anytime between July 19-27, 1997.

To make reservations please call (800) 253-8643 (within United States) or (617) 868-2600 (outside United States) and ask for either: Sydney Klein at ext. 2179, Tracy Kerany at ext. 2183, or T.J. Liptrap at ext. 2182. You can also make your travel arrangements by completing the enclosed Air Travel Reservation Fax Form.



Bull & Finch Pub, otherwise known as "Cheers"

American Express office hours are :
Monday-Friday 8:30 am - 6:00 pm EST
Saturday 9:00 am - 5:30 pm EST

Hotel Reservations

Boston's historic Park Plaza Hotel will host Coastal Zone 97. The Park Plaza is located in the heart of Boston, adjacent to the Public Garden and Boston Common.

The Park Plaza Hotel is committed to providing quality service while implementing sound environmental policies. This ecologically reputable establishment has an extensive recycling system and a recorded commitment to over 200 initiatives addressing solid waste, energy, hazardous waste, water and education. In addition, the Park Plaza offers comfortable rooms, restaurants, gift shops, and access to a fitness facility. Room rates for the conference are as follows:

Single	US \$115	Double	US \$135
Triple	US \$155	Quad	US \$175

These room rates are subject to a 9.7% occupancy tax. To reserve a room at the Boston Park Plaza Hotel, telephone (617) 426-2000.

Please call before June 21, 1997, and specify "CZ97" when arranging reservations by telephone to receive the CZ97 special rate.

Conference Registration

Conference registration includes admission to all technical sessions and exhibits, two lunches at the hotel, Monday night's Faneuil Hall Rally, Tuesday night's reception at the New England Aquarium, Wednesday night's reception at the Park Plaza Castle, and the Conference Proceedings, which will be available at the time of registration. A US \$30 fee will be added if you plan to attend Thursday night's reception on Georges Island. Register by completing the enclosed registration form and mail to the address indicated, with payment, by June 16, 1997. Space is limited, so please make your reservations early.

Registration Fees

Early Registration

Postmarked by June 16, 1997. . . . US \$275

Late Registration

After June 16, 1997. US \$325

Student Registration. US \$95

On-site registration will begin on Saturday, July 19, and continue through the duration of the conference. Registration will take place on the Mezzanine level of the hotel outside of the Dartmouth/Exeter room.

Guest Fee

If you are bringing a guest to the conference, a separate charge will apply for Tuesday night's reception at the New England Aquarium (US \$20), Wednesday night's reception at the Park Plaza Castle (US \$20), and Thursday night's Boston Harbor Island Clambake (US \$30).

Cancellation Policy

Cancellation of conference registration with a refund, less a US \$50.00 processing fee, will be honored if written requests are received by the Urban Harbors Institute, postmarked no later than July 1, 1997. NO REFUNDS WILL BE GIVEN AFTER JULY 1. Due to contractual obligations, refunds for field trips and the Thursday, July 24, Harbor Island Clam Bake can be given only in the case of overbooking or cancellation of the event.

Business Center

The Coastal Zone 97 Business Center is located in the Conference Center on the fourth floor of the Park Plaza Hotel. The Center houses IBM compatible and Macintosh computers (both with internet access), laser printers, a fax machine and a photocopy machine for your convenience. There will be a fee for these services; contact the Park Plaza Hotel for fee information, telephone (617) 426-2000.

Speakers and Session Chairs

All speakers and session chairs are required to register for the conference. At the hotel, speakers should register at the Speaker's Registration Desk. All speakers are required to meet with their chairperson(s) prior to their session.

Speaker's Preparation Room

The Speaker's Preparation room will be in the Lenox Room on the fourth floor. Slide viewers and slide trays will be available for speakers to prepare and review their presentations. Due to the high number of speakers there may be a wait for machines, and speakers are encouraged to bring their own slide trays. Please remember to allow enough time to prepare. For copying and faxing needs, the hotel Business Center is also located on the fourth floor.

Press Room

A press room will be available for all media representatives with credentials. All members of the press are required to check in at the registration desk prior to attending the conference.

Message Board

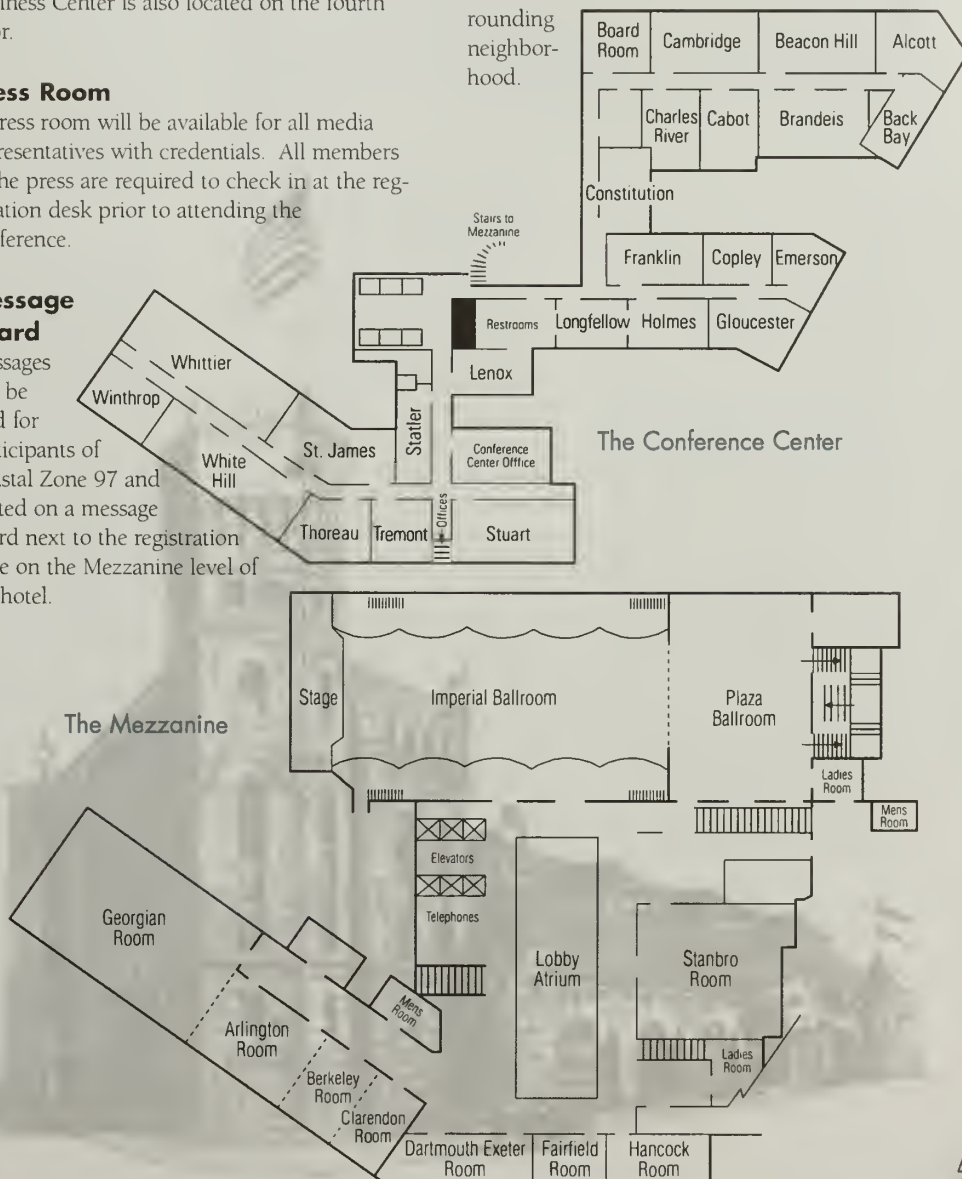
Messages will be held for participants of Coastal Zone 97 and posted on a message board next to the registration table on the Mezzanine level of the hotel.

Lunches

Lunch will be provided to conference participants at the Park Plaza Hotel on Tuesday, July 22, and Wednesday, July 23. On Tuesday, July 22, lunch will be in the Imperial

Ballroom and will include a keynote speaker. On Wednesday, July 23, participants have the option of attending either a round-table discussion or an international luncheon. The menu will be the same at both luncheons.

The cost of these lunches is included in the registration fee. Lunch will not be provided to conference attendees on Thursday, July 24; participants are free to go out and explore the numerous restaurants and cafes in the hotel and the surrounding neighborhood.



Evening Events

Coastal Zone 97 presents four exciting night of entertainment to give conference participants a taste of Boston's rich history and culture.



Boston's downtown waterfront

The costs of attending the evening events held on July 21-23, 1997, are included in the registration fee. However, a separate fee will apply to the Boston Harbor Island Clam Bake on Thursday, July 24, 1997.

International Rally for the Coast at Faneuil Hall -- Monday, July 21, 6:00 pm to 8:00 pm

The opening event for Coastal Zone 97 will be held in Boston's historic Faneuil Hall, the birthplace of many revolutionary ideas and the setting for stirring debates and memorable speeches on human rights, values, and governance. Listen to historic figures like Benjamin Franklin and John Quincy Adams review the environmental issues related to sewage, farming, and public health of colonial United States history. Then join a unique group of modern day leaders, to explore current questions of environmental ethics, citizen rights and responsibilities, and the future of our coasts and oceans.

Gala Reception at the New England Aquarium - Tuesday, July 22, 7:00 pm to 10:30 pm

Join us at the water's edge for an exclusive gala reception at the New England Aquarium. Enjoy dinner -- including New England clam chowder courtesy of the famous Legal Seafoods -- and a cash bar while you explore the exotic and familiar in the exhibit area displaying more than 70 exhibits. You'll see New England lobsters, a giant sea turtle, portly African penguins, sleek moray eels, colorful tropical fishes and much more. Take a leisurely after-hours stroll through new exhibits, including: an interactive conservation exhibit about the Georges Bank fisheries; an outdoor naturalistic habitat with sea otters and seals; and the new Aquarium Medical Center facility; a behind-the-scenes window on veterinary care for aquatic animals. A special sea lion presentation is also planned. Cap off the evening on the Aquarium's Harbor Terrace with twilight views of Boston Harbor and dance to a live band.

Park Plaza Castle Exhibits Reception -- Wednesday, July 23, 1997, 6:00 pm to 8:00 pm

A special reception will be held in the Park Plaza Castle across the street from the hotel to give all conference participants an opportunity to view the displays, while simultaneously enjoying cocktails, hors d'oeuvres, and the company of other participants.

Boston Harbor Island Clambake -- Thursday, July 24, 1997, 6:30 pm to 10:30 pm

Visit the country's newest National Park -- the Boston Harbor Islands -- and enjoy a traditional New England clambake. Depart from downtown Boston aboard Boston Harbor Cruise line and be entertained by a Dixieland band. Once on Georges Island you'll visit Fort Warren, a Civil War era fortress and National Historic Landmark. While on the island, the Metropolitan District Commission's All-Star Band and Militia will lead a Sunset Salute. It's the perfect way to enjoy all the best of Boston. This clam bake is sponsored by the Massachusetts Executive Office of Environmental Affairs and its agencies. The fee for attending this event is US \$30.00 and is not included in the registration fee. Space is limited and advanced registration is required.



Conference Information

General Info

For general information on the conference, please contact:

Chantal Lefebvre, CZ 97
Conference Coordinator
Urban Harbors Institute
University of Massachusetts
Boston

100 Morrissey Boulevard
Boston, MA 02125-3393,
USA

Telephone (617) 287-5576

Fax (617) 287-5575

Email

lefebvre@umbsky.cc.umb.edu

Registration Info

For information on registration, please contact:

CZ 97 Coordinator
Conventures, Inc.

One Design Center Place
Suite 718

Boston, MA 02210, USA

Telephone (617) 439-7700

Fax (617) 439-7701

Technical Program Info

For information on the technical program, please contact:

Dr. Martin Miller
USAE Waterways

Experiment Station

3909 Halls Ferry Road

Attn: CEWES-CR-O

Vicksburg, MS 39180, USA

Telephone (601) 634-3999

Fax (601) 634-4314

Email

m.miller@cerc.wes.army.mil

Field Trips

in and around Boston

Field trips are scheduled for Sunday, July 20, Monday, July 21, Wednesday, July 23, or Friday, July 25. Space is limited on each field trip and advanced registration is required.

1 Whale Watch Trip to Stellwagen Bank Sunday, July 20, 4:00 pm to 9:30 pm

Participants will learn about whale behavior, migration, and identification and also about the identification of sea birds in Massachusetts' waters. On board, participants will experience hands-on educational exhibits and electronic instrumentation. In addition, the New England Aquarium has one of the leading research programs on Northern Right Whales and an expert will be on board to educate the participants on the Northern Right Whale. An optional box lunch will be

offered, which participants must order in advance when they register.

Organizer: Elizabeth S. Coleman, New England Aquarium
Cost: US \$26.00 per person (with lunch), US \$18.00 per person (without lunch)
Maximum number of participants: 250

2 Islands NATUREally Sunday, July 20, 9:45 am to 4:30 pm

Tour two of the islands in the newly established Boston Harbor Islands National Recreational Area. Participants will learn about the islands' flora and

fauna, and view a colony of endangered Least Terns and an area frequented by American Oystercatchers near the northern edge of their American range.
Organizer: John Nove, Massachusetts Department of Environmental Management
Cost: US \$12.00 (includes boat transportation and lunch)
Maximum number of participants: 20

3 Tour of Shellfish Seeding Project, Newly Constructed Barrier Beach, and Renowned Research Facility, Monday, July 21, 8:00 am to 2:00 pm.

Visit Battelle Ocean Sciences, an internationally recognized marine research facility dedicated to helping clients understand and manage environmental risk and its consequences. Battelle is located on the bay in historic Duxbury, Massachusetts, 30 miles south of Boston. The tour will include a visit to a state-funded shellfish seeding project on the Blue Fish River and a visit to Duxbury's recently rebuilt and replenished barrier beach, which was destroyed by a series of storms in 1991 and 1992. There will be tours and informal presentations by Battelle scientists and a complimentary cook-out - with volleyball -- on Battelle's beach.

Organizer: Mark Curran, Battelle Ocean Sciences
Cost: none
Maximum number of participants: 47

4 Tour of Cape Ann and Plum Island Friday, July 25, 9:00 am to 3:00 pm

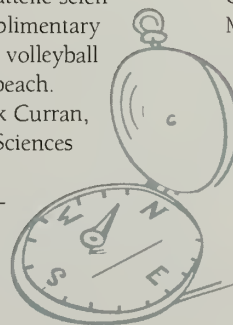
This field trip will take participants north from Boston up the rocky coast to Gloucester, Massachusetts, one of the best-known fishing communities in New England. Dr. Robert Buchsbaum of the Massachusetts Audubon North Shore, will guide this trip. The morning will include a stop at Gloucester's famous fisherman's statue, a tour of Gloucester's working waterfront, a stop at an innovative wastewater treatment facility, and an exploration of a rocky beach with tide pools. Lunch will be at a seafood restaurant in Essex, Massachusetts. After lunch you will explore Ipswich, a town famous for clamming, historic architecture, extensive salt marshes, and sandy beaches. In Ipswich you will discuss local water quality issues and view several tidally-restricted marshes that are currently being studied. The tour will wind-up with a spectacular view of Plum Island Sound.

Organizer: Robert Buchsbaum, Massachusetts Audubon.

Cost: US \$12.00 per person
Maximum number of participants: 50



The dramatic re-enactment of the Boston Tea Party.



5
Tour of Deer Island Waste Water Treatment Plant
Monday, July 21, 10:00 am to 1:00 pm

The construction of \$3.4 billion of wastewater treatment facilities, known as the Boston Harbor Project, is the central element in the Massachusetts Water Resources Authority's effort to upgrade the area's sewage treatment system and end Boston Harbor Pollution. Construction began in 1989 and is expected to be completed in 1999. The tour will offer a unique opportunity to see the progress the MWRA has made on the new treatment facilities and will include a visit to the international award winning restored historic pump station, now the MWRA's Reception/Training Building, a view from the top of the Deer Island egg shaped digestors offering the best harbor views in Boston, and an update on the Public Access Plan, which will include a stroll on portions of the newly completed public walkway that will surround the facility once completed. There is much to see and learn about this mega public works project. Participants must dress appropriately for a construction site (e.g. boots and jeans). Hard hats will be provided. Organizer: Joan Geary, MWRA Tour Coordinator (617) 539-4248
Cost: US \$12.00 per person
Maximum number of participants: 42

6
Tour of the New Bedford Harbor
Monday, July 21, 9:00 pm to 4:00 pm

New Bedford harbor is an important coastal resource area that serves as an active port for commercial fishing and recreational fishing, marine commerce, and marine-related research and tourism



and also provides numerous recreational opportunities. The harbor is in the process of developing a harbor and dredge plan and a restoration plan for resources damaged by the release of PCBs. Field trip participants will tour the harbor by foot and by boat, receive an update on the harbor plan, and learn about various harbor restoration projects. Organizer: Laurel Rafferty, Massachusetts Coastal Zone Management Office
Cost: US \$32.00 per person
Maximum number of participants: 15

7
Hazard Mitigation and Barrier Beach Management Along the Massachusetts Coast

Monday, July 21, 8:00 am to 5:00 pm

At several locations on the South Shore and Cape Cod, participants will learn how Massachusetts, in collaboration with citizens and other government officials, manages hazardous coastal areas and how the state has facilitated the pro-active management of barrier beaches. Field trip organizers will explain how the coastal hazards reduction initiative has, and will continue to, successfully reduce the risks to life and property, and protect the beneficial functions of the resources. In addition, they will demonstrate how implementation of a comprehensive barrier beach management plan has resulted in increased endangered species populations while simultaneously allowing other user groups, such as off-road vehicle users and fishermen, to enjoy these barrier beaches.

Organizer: Jim O'Connell, Massachusetts Coastal Zone Management Office
Cost: US \$30.00 per person (lunch included)
Maximum number of participants: 28



Swanboats at the Boston public Gardens.

8
Science to Management at Waquoit Bay National Estuarine Research Reserve
Monday, July 21, 9:00 am to 5:00 pm

The south shore of Cape Cod is home to the Waquoit Bay National Estuarine Research Reserve, which encompasses some 2500 acres of open waters, barrier beaches, marshlands, and uplands. At the reserve headquarters, Christine Gault, Reserve Manager, will give a brief slide show of the National Estuarine Research Reserve System and discuss its mission. In addition, she will describe some of the Waquoit Bay Reserve's work, which applies science to manage-

ment issues. Visitors will also tour other areas of the Reserve, including South Cape Beach and the Quashnet River area where researchers and resource managers, working in partnership with the Reserve, will discuss their studies, which examine the effects of changing land use patterns on groundwater and coastal embayments. Organizer: Christine Gault, Waquoit Bay National Estuarine Research
Cost: US \$25.00 (lunch included)
Maximum number of participants: 28

Associated Meetings & Workshops

Meetings

Coastal Zone 97

Associated Meetings will be held on July 19, through July 25, 1997.

Dates and times are subject to change, so please confirm with either Gary Magnuson, National Ocean Service, telephone (301) 713-3078 x 177, or with the contact name provided.

Florida Governor's Coastal Advisory Committee

Sunday, July 20, 10:00 am to 3:00 pm

Florida Governor Chiles' Coastal Advisory Committee (GCAC) is a 15-member committee appointed by the Governor to advise him on coastal issues and to develop methods of improving the implementation of the Florida Coastal Management Program. At Coastal Zone 97, the GCAC will meet to discuss actions to address the state's priority coastal issues -- public access, working waterfronts, hazard mitigation and ocean governance. Participants of these discussions will include interested citizens and members of advisory committees from other states. For further information contact:

Mr. Ralph Cantral
Florida Coastal Management Program
2740 Centerview Drive
Tallahassee, FL 32399-2100
Telephone (904) 922-5438
Fax (904) 487-2899

The Surfrider Foundation

Sunday, July 20, 1:00 pm to 5:00 pm

The North Atlantic chapters of the Surfrider Foundation will conduct a roundtable on coastal environmental issues for interested individuals attending the Coastal Zone 97 conference. The Surfrider Foundation is an environmental organization dedicated to the protection and enhancement of the world's waves and beaches through conservation, research, education, and local activism. For further information contact:

Mr. Darryl J. Hatheway
Dewberry & Davis
8401 Arlington Boulevard
Fairfax, VA 22031-4666 USA
Telephone (703) 849-0307
Fax (703) 849-0648

Coastal States Organization

Sunday, July 20, 9:00 am to 4:00 pm

The Coastal States Organization (CSO) will convene a meeting of the CSO Governing Board. The association represents the Governors of the 35 U.S. coastal states and territories on ocean, coastal, and Great Lakes affairs. For further information contact:

Ms. LaJuan Campbell
444 North Capital Street NW
Suite 322
Washington DC 20001, USA
Telephone (202) 508-3860
Fax (202) 508-3843

Coastal Zone Management Advisory Group Roundtable

Wednesday, July 23, 10:30 am to 12:00 pm

The Massachusetts Coastal Resources Advisory Board will host a roundtable discussion of state CZM program advisory



groups. The meeting will be an exchange of information and ideas on ways these volunteer groups contribute to their programs.

Discussion topics will range from board structure and function to the ways boards influence policy, contribute to issues, and perform public outreach. The discussion should be of interest to managers and staff from all CZM programs, particularly those considering the merits of an advisory board. For further information contact:

Mr. Jack Wiggin
Urban Harbors Institute
100 Morrissey Boulevard
Boston, MA 02125, USA
Telephone (617) 287-5570
Fax (617) 287-5575
Email
Urbharbors@umbsky.cc.umb.edu

American Society of Civil Engineers Coastal Zone Management Committee

Wednesday, July 23, 1:30 pm to 4:30 pm

The American Society of Civil Engineers' Coastal Zone Management Committee will

hold a meeting for Committee members and those Coastal Zone 97 attendees who are interested in learning more about the workings of the Committee. For further information contact:

Dr. Scott L. Douglass
Department of Civil Engineering,
EGCB 296
University of Southern Alabama
Mobile, AL 36688, USA
Telephone (334) 460-6174
Fax (334) 460-6343

Marine Affairs and Policy Association

Wednesday, July 23, 12:00 pm to 2:00 pm

The Marine Affairs and Policy Association (MAPA) will host a luncheon for its Board of Directors and all other interested conference participants. Incorporated in 1991, MAPA is a professional organization dedicated to the advancement of marine affairs and policy education and research. MAPA seeks to facilitate collaborative education and research in marine affairs and policy, to analyze trends in the discipline and in employment markets, and to promote the inclu-



View from Boston's Charles River

sion of marine affairs and policy expertise in the study of ocean and coastal problems by public and private entities. Membership in MAPA is open to individuals and institutions, as well as to affiliate organizations at the international, national, and regional levels. For further information contact: Dr. Biliانا Cicin-Sain
Graduate College of Marine Studies
University of Delaware
Newark, DE 19716, USA
Telephone (302) 831-8086
Fax (302) 831-3668

The Coastal Society
Sunday, July 20, 1:00 pm to 5:00 pm

Wednesday, July 23, 12:00 pm to 2:00 pm

The Coastal Society will hold a Board of Directors meeting on Sunday, July 20. In addition, on Wednesday, July 23, the Coastal Society will sponsor a luncheon and general business meeting for

its members and for those interested in learning more about the organization, which serves as a forum for coastal resource professionals and individuals to come together to promote the better understanding and sustainable use of our coastal resources. The Coastal Society will also be hosting an informal social event for conference attendees to meet its members and to discuss the benefits of membership. For further information contact:

Ms. Judith Tucker
P.O. Box 25408
Alexandria, VA 22313-5408, USA
Telephone (703) 768-1599

Association of National Estuary Programs Annual Meeting

Friday, July 25, 9:00 am to 3:00 pm

The Association of National Estuary Programs (ANEP) is organized to promote responsible

stewardship and a common vision for the preservation of the United States' bays and estuaries. ANEP works to build and maintain public-private partnerships during the development and long-term implementation of management plans, and to enhance communication between the National Estuary Programs and the nation's resource management community. This annual meeting is open to all interested persons. Please come and share your perspective on the most pressing needs for successful estuarine management. For further information contact:

Mr. Richard Volk, Chair,
Association of National Estuary Programs
c/o CCBNEP, Natural Resources Center, Suite 3300
6300 Ocean Drive, Corpus Christi, TX 78412, USA
Telephone (512) 980-3420
Fax (512) 980-3437
Email rvolk@tnrcc.state.tx.us

National Estuarine Research Reserve Association

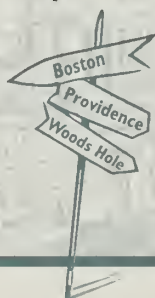
Friday, July 25, 1:00 pm to 5:00 pm

The National Estuarine Research Reserve Association will hold a general meeting for its membership, the managers of the 23 units of the National Estuarine Research Reserve System (NERRS). The association is dedicated to informed management of the nation's estuaries and coastal systems, and serves as the primary advocate for the NERRS, a network of regionally-based programs committed to excellence and leadership in estuarine stewardship, education and research. For further information contact:

Ms. Christine Gault
Waquoit Bay NERR
P.O. Box 3092
Waquoit, MA 02536 USA
Telephone (617) 727-6174
Fax (617) 727-5537

Workshops

Coastal Zone 97 Associated Workshops will be held on July 19, through July 25, 1997. Dates and times are subject to change, so please confirm with either Gary Magnuson, National Ocean Service, telephone (301) 713-3078, x 177, or with the contact name provided.



Coastal Economic Information Workshop
Saturday, July 19, 9:00 am to 12:00 pm

A half-day workshop will be conducted to present and discuss the different kinds of economic information available, and how it can be used in coastal management decision making. The workshop will offer case studies and extensive interaction between participants and presenters, including economic consultants, coastal area managers, and academic researchers. For further information contact: Mr. Jerry Diamantides
Economic Analysis Inc.
#10 Overhill Road
Providence, R.I. 02906
Telephone (401) 861-0084
Fax (401) 521-7785

Coastal America Workshop
Sunday, July 20, 9:00 am to 5:00 pm

Coastal America leverages the resources, expertise and authorities of the federal resource, infrastructure and military agencies with state, local, tribal and nongovernmental organizations to collaboratively address coastal environmental problems. This innovative action-oriented initiative is a true partnership process, not a program. The purpose of this day-long workshop will be to provide an open forum in which Coastal America participants will have the opportunity to discuss administrative and programmatic issues within the partnership with Coastal America national and regional representatives. Additionally, the theme of CZ 97 provides a unique opportunity to discuss the future of Coastal America and how its

"process" can be integrated into and with other coastal programs at the national, regional and local levels. For further information contact:

Mr. William L. Klesch
Coastal America
Reporters Building
300 7th Street SW, Suite 400
Washington DC 20250, USA
Telephone (202) 401-9922
Fax (202) 401-9821

Priority Problems of the World's Coasts: A View from the Experts Participating in CZ 97

Sunday July 20, 1:00 pm to 5:00 pm, New England Aquarium

Late this year the New England Aquarium will open "Coastal Rhythms" the largest aquarium exhibit ever dedicated to understanding the world's coastal environments. Coastal Rhythms will

be the premier exhibit of the Aquarium's two-level changing exhibit gallery in its new west wing. The exhibit will extend beyond the Aquarium's walls with a World Wide Web exhibit, books, lectures, field trips, and films. This workshop will be used to identify the major problems and issues confronting the world's coasts in a directory that will become part of both the Aquarium and the on-line exhibits. The workshop will be held at the New England Aquarium and is open to all registrants. Space is limited, and advance registration is required. For more information or to confirm your attendance, please contact:

Ms. Jean Rankin
New England Aquarium
Central Wharf
Boston, MA 02110 USA
Telephone (617) 973-5220

International Training Workshop on Integrated Coastal Management
July 20-21, 9:00 am to 5:00 pm (both days)

An international training workshop will be held at Coastal Zone 97. The objectives are to provide an opportunity for participants to consider and compare their own experiences with Integrated Coastal Management (ICM) at both national and local levels with other practitioners and program managers, both national and international; to introduce approaches to ICM that address a range of issues; and to provide the opportunity to view a local level example of efforts to promote ICM. For more information, interested international practitioners who are attending Coastal Zone 97 should contact:

Ms. Lynne Mersfelder
US National Ocean Service,
NOAA/NOS/EA,
1305 East West Highway, SSMC4,
13th Floor
Silver Spring, Maryland 20910,
USA
Telephone (301) 713-3078



U.S. Customs House Tower-
Historic waterfront landmark
clock tower

Fax (301) 713-4263
Email
L.Mersfelder@ocean.nos.noaa.gov
Co-sponsors of the International Training Workshop include:
UNESCO's Intergovernmental Oceanographic Commission (IOC), United Nations Environment Programme (UNEP), National Ocean Service (NOS), US National Oceanic and Atmospheric Administration (NOAA), Coastal Resources Center (CRC), University of Rhode Island (URI), Massachusetts Port Authority, and Normandeau Associates.

Coastal Engineering and Education Workshops
Monday, July 21, 9:00 am to 12:00 pm, and 1:30 pm to 4:30 pm

Coastal Zone 97 conferees are invited to participate in two half-

day open workshops on July 21, 1997, sponsored by the prestigious National Research Council (NRC). The NRC's Committee on Coastal Engineering Research and Education Needs will conduct the workshops to seek the views and input of the conferees on issues pertaining to research, education, and innovative applications of engineering knowledge and tools in the areas of shoreline protection, waterways and environmental management.

The first workshop (9:00 am - 12:00 pm) will focus on the present day status of coastal engineering, sources of investment for research and educational programs, and the employment outlook. The second workshop (1:30 pm - 4:30 pm) will focus on research and technology needs in coastal engineering, the ability of public and private research institutions to meet the needs, and technology transfer.

Participants who register for the workshops will be sent issue papers prepared by the committee and are invited to present their views and to provide supporting information. The committee welcomes a wide range of perspectives especially from engineers, managers, and educators. To register for the workshop or for further information contact:

Dr. Joseph L. Zelibor
National Research Council,
National Academy of Sciences
2101 Constitution Ave. N.W.
Washington D.C. 20418
Telephone (202) 334-3119
Fax (202) 334-3789
Email
jzelibor@nas.edu

Putting the Public Trust Doctrine to Work Again: Putting Theory into Practice
Monday, July 21, 9:00 am to 5:00 pm

This full-day workshop is intended for coastal resource managers and attorneys who are familiar with the Public Trust Doctrine but

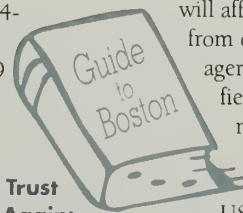
want to gain practical insights on the application of the doctrine by coastal management programs. The program will focus on problem solving by exploring legal and evidentiary issues arising from the application of the Public Trust Doctrine, litigation strategies, and considerations for well-designed submerged lands programs. The workshop has been designed with a series of panel discussions by experts in the field. The workshop will review major revisions to the treatise and provide an opportunity to comment and raise questions on the revisions. The Public Trust Workshop will be held in the Park Plaza Hotel; space is limited and advanced registration is required. The fee for attending the workshop is US \$150.00 per person, which includes lunch. For more information or to register for the workshop, please contact:

Mr. Terry Stone
Urban Harbors Institute
University of Massachusetts
100 Morrissey Boulevard
Boston, MA 02125, USA
Telephone (617) 287-5570
Email
Urbharbors@umbsky.cc.umb.edu

US Army Corps of Engineers Workshop
Monday, July 21, 9:00 am to 5:00 pm

The Corps of Engineers will hold a workshop for its District and Division personnel working with coastal management issues. This will afford the opportunity to hear from other federal coastal managers about current issues in the field and to discuss topics of mutual interest. For further information contact:

Dr. Martin Miller
USAE Waterways Experiment Station
Coastal and Hydraulics Laboratory (CEWES-CR-O)
3909 Halls Ferry Road
Vicksburg, MS 39180, USA
Telephone (601) 634-3999
Fax (601) 634-4314



Coastal Zone Geographic Information Systems (GIS) Workshop

Monday, July 21, 1:00 pm to 5:00 pm

The Federal Geographic Data Committee Bathymetric Subcommittee and the NOAA Coastal Services Center will jointly sponsor a workshop on the lessons, applications, benefits, and opportunities of Coastal Zone Geographic Information Systems (GIS). Similar to a successful and well-attended workshop held during the Coastal Zone 95 conference, this workshop provides GIS operators and data managers within the coastal zone community a forum on geographic data needs, standards, and data sharing possibilities. The workshop will include a series of GIS demonstrations and case studies in coastal and marine GIS. For further information contact:

Mr. Millington Lockwood
NOAA Coast Survey
1315 East-West Highway, Room 6222
Silver Spring, MD 20910, USA
Telephone (301) 713-2777 x 171
Fax (310) 713-4019
Email
millington.lockwood@noaa.gov

Ten-year Review of Management Issues and Scientific Studies in Massachusetts Bay and Boston Harbor

Monday, July 21, 9:00 am to 5:00 pm

Since the mid 1980s when Boston Harbor was deemed one of the dirtiest harbors in the United States, considerable research and monitoring efforts have concentrated on understanding processes and developing management approaches to improve water quality in Boston Harbor and in Massachusetts and Cape Cod Bays. Initial studies focused on identifying and quantifying point and nonpoint sources of pollution; understand-



Paul Revere Statue/Old North Church Steeple

ing the physical and biogeochemical process of the bay and the transport, fate and effect of contaminants; and examining pollution impacts on living resources in the bays. This workshop reviews ten years of research in Massachusetts Bay and Boston Harbor and highlights scientific studies that support and are integrated into the management decisions affecting coastal and marine resources. Pre-registration is advised, but not a necessity. Please direct all inquiries to:

Ms. Christine Cristo
MIT Sea Grant College Program
292 Main Street, E-38-300
Cambridge, MA 02139, USA
Telephone (617) 253-7092
Fax (617) 252-1316
Email chardi@mit.edu.

**Communications Workshop
Sponsored by SeaWeb
Friday, July 25, 9:00 am to 5:00 pm**

SeaWeb -- a project of Pew Charitable Trusts -- will conduct a one day workshop on effective media communication and transfer of information to the public, with particular emphasis on the role of public communication in marine environmental conservation and coastal zone management. A variety of strategies and methods will be presented and participants in the workshop will apply and evaluate them in the context of their own needs and experiences. Guests from the media, public relations firms, academia, and government will participate, and will interact with the registered participants in activities relevant to the effective communication of information

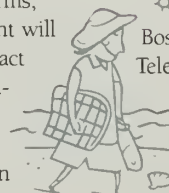
about coastal environments. The shaping of messages and the stimulation of public participation in matters relevant to coastal environmental protection will be emphasized. The goals of the workshop are to share experience and expertise regarding the public communication of marine environmental information, and to provide training for those who want to accomplish this more effectively. For further information contact:

Ms. Vikki Spruill or Mr. Boyce Thorne-Miller
SeaWeb
1731 Connecticut Ave NW
4th Floor
Washington DC 20009, USA
Telephone (202) 483-9570
Fax (202) 483-9354
Email vspruill@seaweb.org OR
btmiller@seaweb.org

Research Vessel Envirolab Workshop

Explore Boston Harbor aboard the research vessel "Envirolab." Learn first-hand how the quality of life in Boston Harbor is influenced by issues related to coastal zone management. Use nets and other scientific instruments to make first-hand discoveries about the marine environment. Participants will pull a trawl net rich with sea life to observe the tremendous diversity of plants and animals in Boston Harbor and the ways these creatures have adapted to this environment. They will also collect mud samples from the Harbor's floor, test water quality, and learn about the causes and effects of pollution. This trip will cost \$13.00 per person. Date and time to be announced. To confirm vessel's availability, please call:

Ms. Madeleine Walsh
★ Urban Harbors Institute
Boston, MA 02125, USA
Telephone (617) 287-5570
Fax (617) 287-5575



Major Sponsors

NOAA/National Ocean Service NOAA's National Ocean Service

(NOS) is responsible for the observation, measurement, assessment and management of the nation's vast coastal and ocean areas. NOS provides world-class information products and services to advance the sustainable use of the coast to support the nation's economic prosperity and environmental well-being. Through federal, state and local partnerships, NOS works to promote safe marine navigation, to mitigate coastal hazards, and to sustain healthy coasts.

W. Stanley Wilson, Assistant Administrator for Ocean Services and Coastal Zone Management, National Ocean Service

NOAA/Office of Ocean and Coastal Resource Management

The Office of Ocean and Coastal Resource Management's (OCRM's) mission is to make sound decisions with our partners that ensure diverse, high quality coastal and ocean resources for everyone's use and enjoyment and that resolve conflicts among users. OCRM meets this challenge through three programs established by Congress: the National Coastal Zone Management (CZM) Program, the National Estuarine Research Reserve System (NEERS), and the National Marine Sanctuary Program (NMSP).

Jeffrey R. Benoit, Director, Ocean and Coastal Resource Management

NOAA/Coastal Ocean Program

NOAA's Coastal Ocean Program (COP) seeks to deliver the highest quality science in time for important coastal policy decisions. COP selects high-priority research and interagency initiatives related to NOAA's mission and funds this multidisciplinary research through partnerships with academia. Most COP research projects

address regional ecosystem-scale issues through multiyear life-cycle designs aimed at providing a predictive understanding of critical ecosystem processes.

Donald Scavia, Director, Coastal Ocean Program

NOAA/Coastal Services Center

NOAA's Coastal Services Center is a newly established federal enterprise which seeks to reach across the breadth of NOAA and other partnership entities to identify and provide access to tools and technologies that will support improved capacities for coastal and ocean resource management at the state and local levels.

Margaret A. Davidson, Director, Coastal Services Center

NOAA/National Sea Grant College Program

The National Sea Grant College Program is a partnership of academia, government, and industry formed to use and conserve coastal, Great Lakes, and marine resources for a sustainable economy and environment. Operating through a university-based network of 29 core programs, Sea Grant uses research, education, and outreach to provide coastal managers with information to make sound decisions in areas such as water quality, fisheries, coastal hazards, and economic development.

Ronald C. Baird, Director, National Sea Grant College Program

NOAA/National Marine Fisheries Service

NOAA's National Marine Fisheries Service's (NMFS) primary mission is stewardship of living marine resources for the benefit of the nation through science-based conservation and management and promotion of the health of their habitats. Through successful stewardship, NMFS envisions a future in which citizens

are able to enjoy the wealth and benefits of diverse and self-sustaining living marine resources. The agency's three strategic goals are sustainable fisheries, recovered protected species, and healthy coasts. The agency's financial contribution for Coastal Zone 97 was provided by the NMFS Office of Habitat Conservation and the network of NMFS research and management units that comprise the NMFS National Habitat Program.

Rolland A. Schmitt, Assistant Administrator for Fisheries, National Marine Fisheries Service

US Fish and Wildlife Service/Division of Habitat Conservation

The Division of Habitat Conservation serves as a consultant, providing expert scientific and technical advice regarding fish and wildlife and their habitats and ecosystems. The common thread in the Division is that the staff shares its expertise, whether in mapping, hydrology, biology, ecology, or other arenas, with others to conserve, protect and enhance fish and wildlife habitat. The people with whom expertise is shared may be private citizens, agricultural communities, business and industry, or other governmental agencies, at all levels.

Chief, Division of Habitat Conservation

US Geological Survey Coastal and Marine Geology Program Woods Hole, Massachusetts

As the Nation's largest earth science research and information agency, the U.S. Geological Survey maintains a long tradition of providing "Earth Science in the Public Service" (see <http://www.usgs.gov>). The USGS Coastal and Marine Geology Program addresses issues in environmental quality, geologic hazards, and resources. Long-term goals of the program are to devel-

op predictive capabilities to guide science and management in the coastal ocean, to provide a comprehensive source of information that can be easily accessed and used by the government and the public, and to facilitate research. Data and information are available through publications and maps, and on the Web (<http://marine.usgs.gov>).

Deborah Hutchinson, Chief, U.S. Geological Survey Woods Hole Field Center

Department of Interior Minerals Management Service

As a bureau of the Department of Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the United States' Outer Continental Shelf (OCS), to collect revenue for the federal OCS and the onshore federal and Indian lands, and to distribute those revenues. Specifically, MMS administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of the United States' offshore natural gas, oil, and other mineral resources. The MMS also ensures the efficient, timely, and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, states, and the US Treasury.

Cynthia Quarterman, Director, Minerals Management Service

US Environmental Protection Agency/Office of Wetlands, Coastal, and Marine Affairs

The Oceans and Coastal Protection Division has a number of major responsibilities, including administering the National Estuary Program, developing regulations and criteria for ocean dumping, identifying the sources and nature of marine debris, and providing technical support to

local, state, and federal agencies involved in ocean and coastal protection efforts.

Suzanne Schwartz, Acting Director, Oceans and Coastal Protection Division

US Environmental Protection Agency/Chesapeake Bay Program

The Chesapeake Bay Program, formed in 1983 as a unique state federal partnership has been working to restore the Bay and its tributaries. The Bay Program is voluntary and non-regulatory, operates on a consensus basis, and sets innovative and far-reaching goals, such as reducing nutrients entering the Bay by 40 percent by the year 2000.

William Matuszeski, Associate Assistant Administrator, Chesapeake Bay Program Office

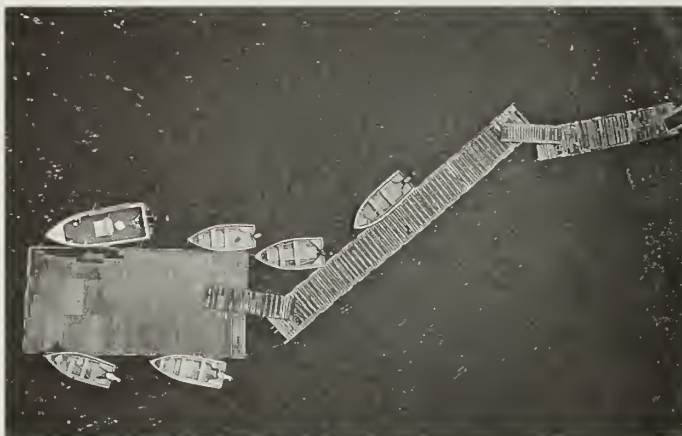
US Department of Energy

The mission of the Department of Energy is to contribute to the welfare of the nation by providing the technical, scientific, and educational foundation to achieve efficiency in energy use, diversity in energy sources, a more productive and competitive economy, improved environmental quality, and a secure national defense.

Marc Chupka, Acting Assistant Secretary for Policy and International Affairs, US Department of Energy

US Army Corps of Engineers

The Civil Works Program of the US Army Corps of Engineers plans, designs, constructs, operates, and maintains a wide variety of water resources infrastructure necessary to support the national economic interests of the United States. In the coastal zone, this includes navigation structures and channels necessary to support all the major harbors and some smaller harbors, shore protection projects to protect beaches and existing development behind those beaches, and environmental restoration



Floating docks in Quincy Bay

projects to protect and enhance natural resources. Most Corps of Engineers work is done on a project basis only. However, there are some small programs to help state and local governments with their planning needs. The Corps of Engineers has been a major partner in the Coastal America Program.

MG Russell L. Fuhrman, Director, Civil Works, US Army Corps of Engineers

Federal Emergency Management Agency

The Federal Emergency Management Agency (FEMA) is an independent federal agency, reporting to the President of the United States. Since its founding in 1979, FEMA's mission has been clear: to reduce loss of life and property and protect our nation's critical infrastructure from all types of hazards, through a comprehensive, risk-based emergency management program of mitigation, preparedness, response, and recovery. In partnership with state and local governments as well as the private sector, FEMA is providing increased emphasis on mitigation of coastal hazards through pre disaster hazard mitigation planning and port disaster opportunities. FEMA also administers the National Flood Insurance Program through the Federal Insurance Administration.

James Lee Witt, Director, Federal Emergency Management Agency

US Department of Agriculture, Natural Resource Conservation Service

The Natural Resources Conservation Service, US Department of Agriculture, provides national leadership in a partnership effort to help people conserve, improve, and sustain our natural resources and environment.

Paul W. Johnson, Chief, Natural Resources Conservation Service

Massachusetts Coastal Zone Management

Massachusetts's coastal program is implemented through several agencies within the Executive Office of Environmental Affairs, with the Massachusetts Coastal Zone Management Office (MCZM) serving as the lead policy and technical assistance agency. MCZM's mission is to provide policy leadership, assistance, and education to the network of agencies, communities, and individuals who are collectively responsible for the stewardship of coastal resources, in order to promote well and informed decisions, protect the integrity of natural systems, and respond effectively to human needs.

Peg Brady, Director, Massachusetts Coastal Zone Management

Urban Harbors Institute of The University of Massachusetts Boston

The Urban Harbors Institute, founded in 1989 at The University of Massachusetts Boston, is a public policy and scientific research institute dedicated to public service, research, and education. The Institute conducts multidisciplinary research on urban harbors issues ranging from water quality and coastal resource protection, to harbor management, port planning, and integrated coastal management.

Richard Delaney, Director, Urban Harbors Institute

Massachusetts Water Resources Authority

Created by the Massachusetts Legislature in 1985, the Massachusetts Water Resources Authority (MWRA) manages water and sewer services for over 2.5 million people and 5,500 businesses in 61 communities. While the Boston Harbor Project is the best known of MWRA's projects, MWRA operates 400 miles of water pipes, aqueducts and tunnels, and 228 miles of sewers each day. Also underway are projects to control combined sewer overflows, provide adequate water delivery and meet all federal, state and local water and sewer standards.

Douglas B. MacDonald, Executive Director, Massachusetts Water Resources Authority

Massachusetts Environmental Trust

The Massachusetts Environmental Trust is an environmental philanthropy established by the Massachusetts Legislature in 1988 with the funds from a settlement of a federal lawsuit over violation of the Clean Water Act in Boston Harbor. The Trust continues to act as a receptacle for these settlement funds, determines innovative uses for the funds, and also

receives substantial revenue from the proceeds of the Commonwealth's environmental license plate. The Trust funds projects that restore, protect, and improve the quality of the waterways across the Commonwealth through several grantmaking programs. Robbin Peach, Director, Massachusetts Environmental Trust

The New England Aquarium

The New England Aquarium (NEAq) is a non-profit institution dedicated to presenting, promoting, and protecting the world of water. Representing some 13,000 animals and habitats from Maine to Africa, India to the Brazilian rainforest, NEAq presents the beauty and wonder of the aquatic realm. The NEAq mission extends beyond exhibits, however. The Aquarium also stands at the intersections of science and society as an interpreter and expositor of aquatic science for the general public. Jerry Schubel, President, New England Aquarium

Massachusetts Executive Office of Environmental Affairs

Massachusetts Executive Office of Environmental Affairs (EOEA) is a cabinet-level agency servicing the Executive Branch. EOEA's principal responsibility is to implement and to oversee state regulatory programs, policies, and parks agencies that preserve and protect the natural resources of the Commonwealth of Massachusetts. EOEA's agencies include the Department of Environmental Protection, Department of Environmental Management, Massachusetts Environmental Policy Act Unit, Metropolitan District Commission, Department of Fisheries, Wildlife and Environmental Law Enforcement, Massachusetts Coastal Zone Management, and Office of Technical Assistance.

Trudy Coxe, Secretary of Environmental Affairs

Metropolitan District Commission

The Metropolitan District Commission (MDC) is a unique multi-service agency within EOEA responsible for the management and stewardship of the 16,000 acre Metropolitan Parks System. The Commission also manages a 120,000 acre watershed and reservoir system that provides pure water for 2.5 million people. Founded in 1893, the MDC was the country's first metropolitan park system. Georges Island is operated and managed by the MDC. David Balfour, Director, Metropolitan District Commission

Battelle Ocean Sciences

Located in Duxbury, Massachusetts, Battelle is a world leader in contract research. Battelle's highly skilled technical staff, state-of-the-art characterization and measurement tools, and unique risk assessment methodologies assist clients in achieving their environmental risk and compliance objectives by identifying and characterizing environmental problems, determining the extent of liability, and preparing cost-effective solutions to environmental problems. Mark Curran, Director, Environmental Research Management

Massachusetts Port Authority

The Massachusetts Port Authority (Massport) operates the region's major maritime and aviation facilities including Logan International Airport and the public terminals in the Port of Boston and is also responsible for promoting local economic development. Founded by the Massachusetts legislature as a revenue bond authority in 1956 and becoming fully operational in 1959, Massport took over

administration of properties originally owned and operated by the Mystic River Bridge Authority, the State Airport Management Board, and the Port of Boston Commission. Peter Blute, Executive Director, Massachusetts Port Authority

Normandeau Associates

Normandeau Associates provides a wide array of services to support the environmental needs of the port and coastal industries. The services offered include environmental impact statements and reports; state, local, and federal permitting; sediment and dredged material characterization, including bioassays; biological surveys on aquatic ecosystems, threatened and endangered species and wetlands; site mapping (GPS, GIS/CADD); and mitigation planning. The staff has many years of experience on marine studies and has the necessary expertise to complete projects in an efficient, cost effective, and thorough manner. Pamela Hall, President, Normandeau Associates

Legal Seafoods

Since the first restaurant opened in Cambridge, Massachusetts in 1950, Legal Seafoods has grown to include 12 restaurants and 5 retail markets in the Boston and Washington DC areas. This company is proud to have earned a number of honors including being rated "The Best Seafood Restaurant in America" by the NBC Today show. In addition, Legal Seafoods is proud to be working with Ocean Trust on its efforts to "Save the Oceans." Ultimately, one taste tells the Legal story and is the compelling reason why generations of seafood lovers have come to say "if it isn't fresh, it isn't legal." Telephone: 1-800-477-LEGAL

Camp Dresser & McKee, Inc.

Camp Dresser & McKee, Inc., is

an international environmental consulting firm headquartered in Cambridge, Massachusetts. Services that the firm offer relevant to coastal zone management include: coastal protection, restoration, rehabilitation, cleanup, and mitigation; estuarine and nearshore water quality assessment; integrated coastal resource management; GIS and data collection; public health impact assessment of coastal environments; wetland delineation and restoration; ocean outfall siting and design; and fisheries and fishing services including aquaculture.

Guillermo J. Vicens, Senior Vice President, Camp Dresser & McKee

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Legend

- One Way Streets
- U.S. and State Routes
- Parking (capacity-over 100 vehicles)
- Garage P
- Rapid Transit Station
- Freedom Trail
- Tumple Access Ramps

Scale of Miles
0 1/4 1/2 3/4 1

POINTS OF INTEREST

- Boston Center for the Arts
- Boston Museum of Science
- Boston Tea Party Ship
- Bunker Hill Pavilion
- Center Plaza
- Copy Place
- Cop's Hill Burying Ground
- Court House
- Custom House
- Faneuil Hall
- Franklin's Birthplace
- Hatch Memorial Shell
- John Hancock State
- Office Building
- Quincy Market
- King's Chapel
- Mass. Transportation Building
- Museum of Science
- New England Mod. Coll.
- Thomas P. O'Hall, Jr.
- Federal Office Building
- Old City Hall
- Old Corner Book Store
- Old Granary
- Burying Ground
- Old North Church
- Old State House
- Paul Revere's House
- Post Office
- Public Library
- Quincy Market
- Senator Saltonstall
- State Building
- State House
- Trinity Church



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